

Application No. 10/595,342
Amendment Dated December 3, 2008
Reply to Office Action of September 4, 2008

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-8 (Cancelled)

Claim 9 (New) A modular reel device configured to support a coilable body, the modular reel device comprising:

a plurality of cylinder segments separably connected together in series to form a cylinder, wherein increasing the number of cylinder segments in the series increases the diameter of the cylinder and wherein decreasing the number of cylinder segments in the series decreases the diameter of the cylinder; and

a pair of opposing end flanges that are separably connected to opposite ends of the cylinder, each end flange comprising a flange sector and a flange segment that is separably connected to the flange sector, wherein the pair of opposing end flanges are each configured to separably connect to cylinders having different diameters.

Claim 10 (New) The modular reel device of claim 9, wherein each opposing end flange has an inner face that is configured to mate with and separably connect to an end of the cylinder.

Claim 11 (New) The modular reel device of claim 10, wherein both the flange sector and the flange segment are connected to the cylinder.

Claim 12 (New) The modular reel device according to claim 11, wherein the flange sector and the flange segment are connected together by a splice connection.

Claim 13 (New) The modular reel device according to claim 11, wherein the inner face of each of the opposing end flanges has a first plurality of notches distributed along a pitch circle about a central axis of the respective end flange and a second plurality of

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notches distributed along a pitch circle about the central axis of the respective end flange and having a greater radius than that of the pitch circle of the first plurality of notches, and wherein the opposing ends of the cylinder comprise fastening hooks configured to mate with notches in both of the first and second pluralities.

Claim 14 (New) The modular reel device according to claim 13, wherein each flange sector comprises a series of interconnected triangular flange portions, the triangular flange portions defining notches in the first plurality of notches.

Claim 15 (New) The modular reel device of claim 14, wherein each flange sector defines part of a central portion of a respective end flange that defines an aperture in the end flange.

Claim 16 (New) The modular reel device according to claim 14, wherein the flange segment defines a rolling surface and defines notches in the second plurality of notches.

Claim 17 (New) The modular reel device according to claim 9, wherein the plurality of cylinder segments are interconnected by dovetail connections.

Claim 18 (New) The modular reel device according to claim 9, wherein the plurality of cylinder segments are interconnected by screw-bolt-joints.

Claim 19 (New) The modular reel device according to claim 9, wherein the plurality of cylinder segments are connected to the opposing end flanges by fastening hooks.

Claim 20 (New) A modular reel device configured to support a coilable body, the modular reel device comprising:

a pair of opposing end flanges and a cylindrical center portion extending between the end flanges along a central axis, wherein the end flanges are composed of a flange sector and a flange segment that is separably connected to the flange sector; and

the cylindrical central portion being composed of a plurality of separable cylinder segments connected to the end flanges, wherein the cylinder segments of the central portion can be connected to the end flanges at more than one radial distance from the central axis.

Claim 21 (New) The modular reel device of claim 20, wherein each opposing end flange has an inner face that is configured to mate with and separably connect to an end of the cylindrical central portion.

Claim 22 (New) The modular reel device of claim 21, wherein both the flange sector and the flange segment are connected to the cylindrical central portion.

Claim 23 (New) The modular reel device according to claim 21, wherein the flange sector and the flange segment are connected together by a splice connection.

Claim 24 (New) The modular reel device according to claim 22, wherein the inner face of each of the opposing end flanges has a first plurality of notches distributed along a pitch circle about the central axis of the respective end flange and a second plurality of notches distributed along a pitch circle about the central axis of the respective end flange and having a greater radius than that of the pitch circle of the first plurality of notches, and wherein the opposing ends of the cylindrical central portion comprise fastening hooks configured to mate with notches in both of the first and second pluralities.

Claim 25 (New) The modular reel device according to claim 24, wherein the cylinder segments are connected to the opposing end flanges by fastening hooks.

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Claim 26 (New) The modular reel device according to claim 25, wherein each flange sector comprises a series of interconnected triangular flange portions, the triangular flange portions defining notches in the first plurality of notches.

Claim 27 (New) The modular reel device of claim 24, wherein each flange sector defines part of a central portion of a respective end flange that defines an aperture in the end flange.

Claim 28 (New) The modular reel device according to claim 22, wherein the flange segment defines a rolling surface and defines notches in the second plurality of notches.